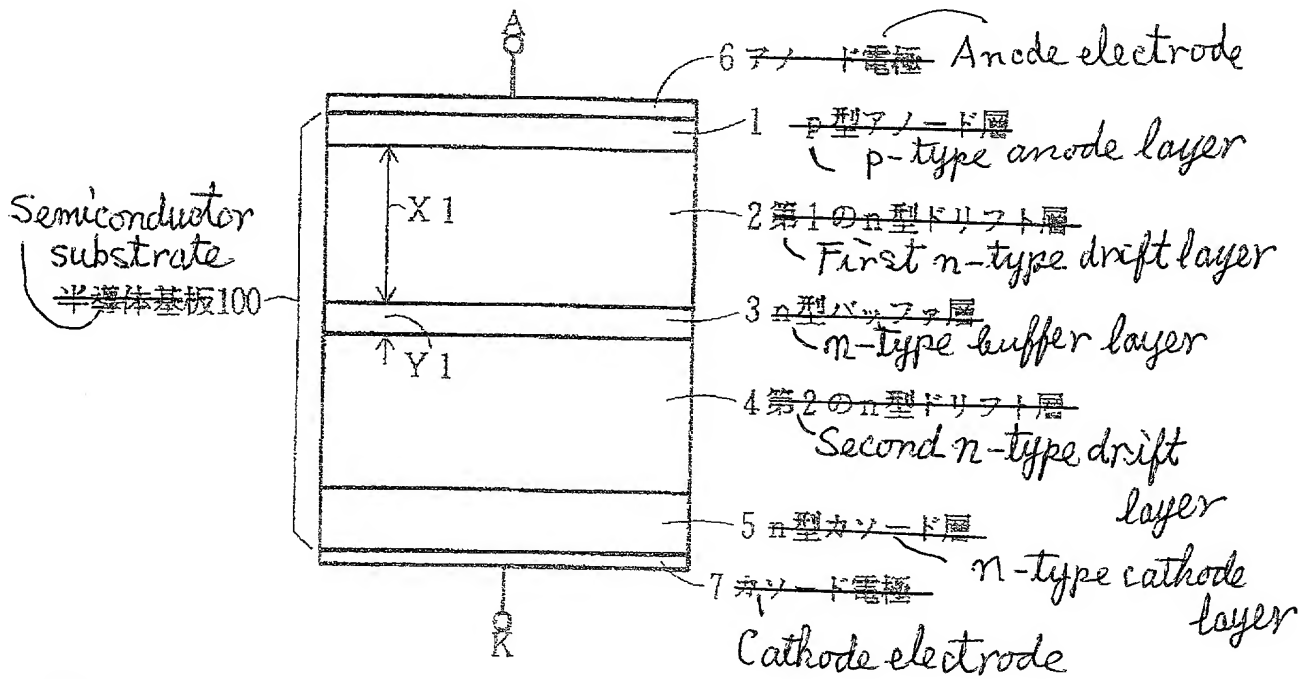


Fig. 1



【図2】

Fig. 2

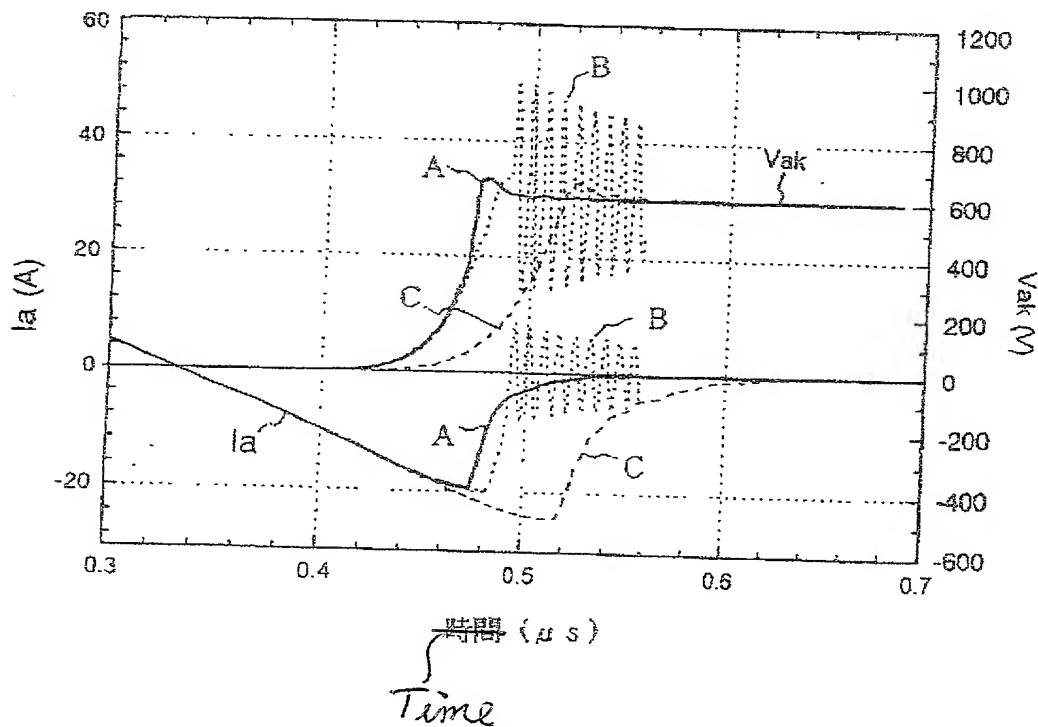


Fig. 3(a)

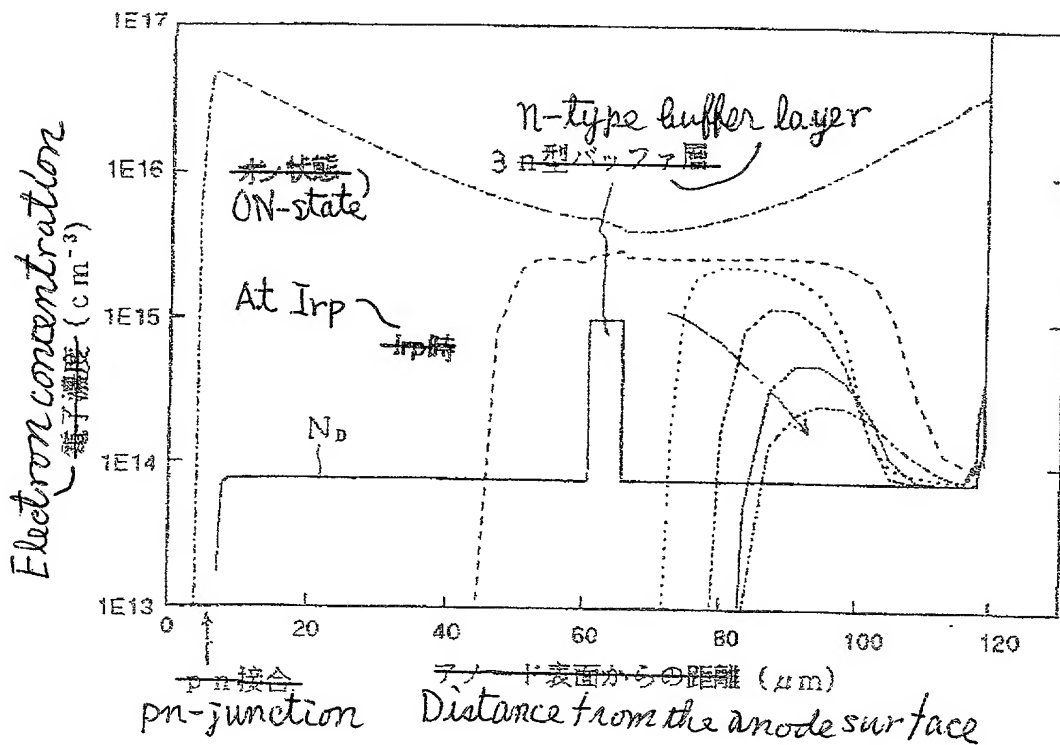


Fig. 3(b)

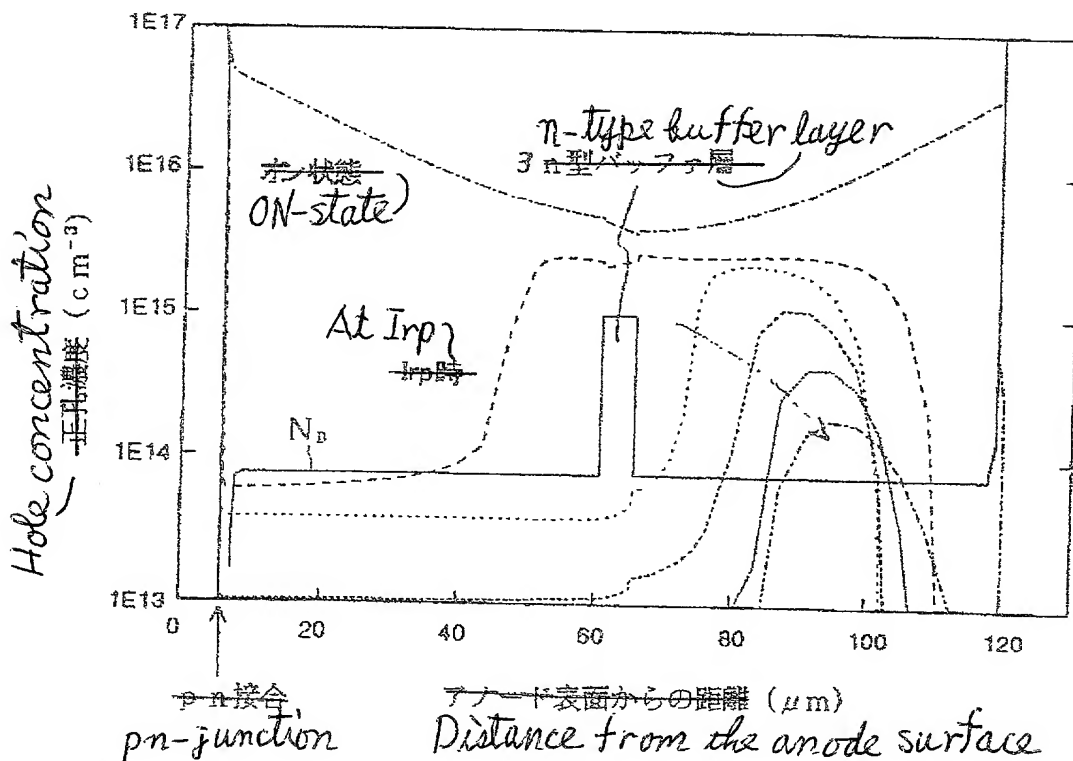


Fig. 4(a)

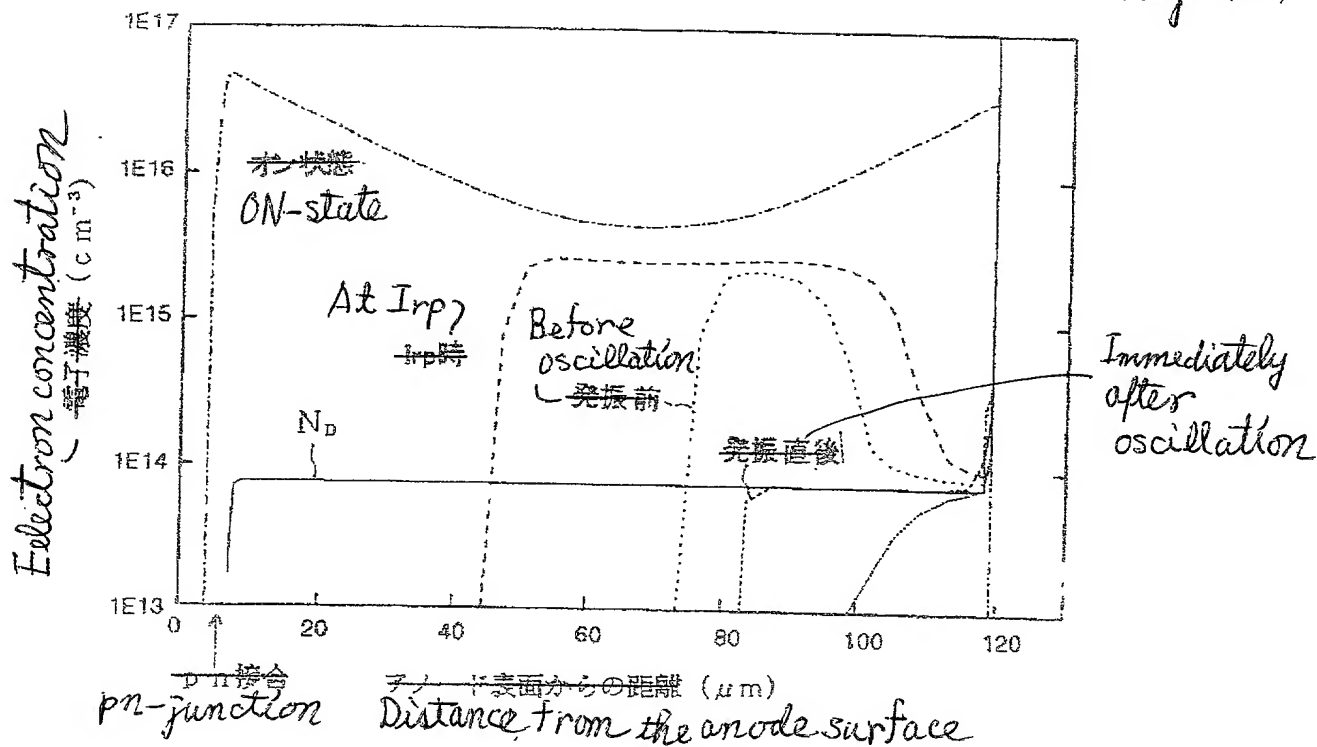


Fig. 4(b)

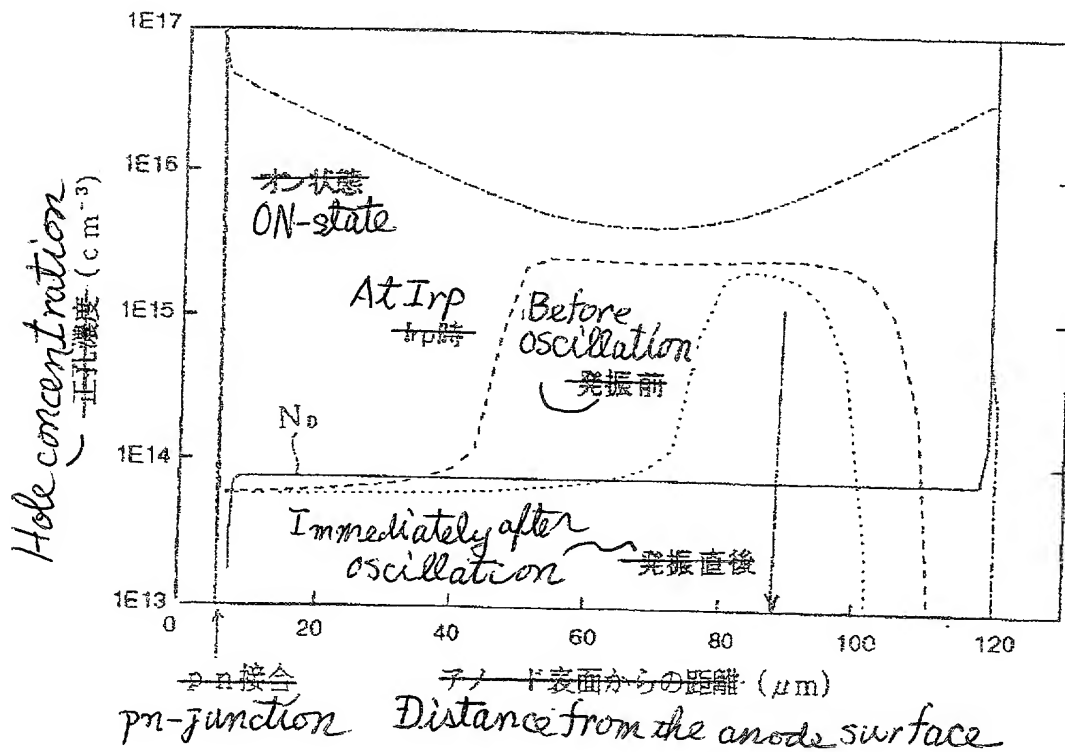


Fig. 5

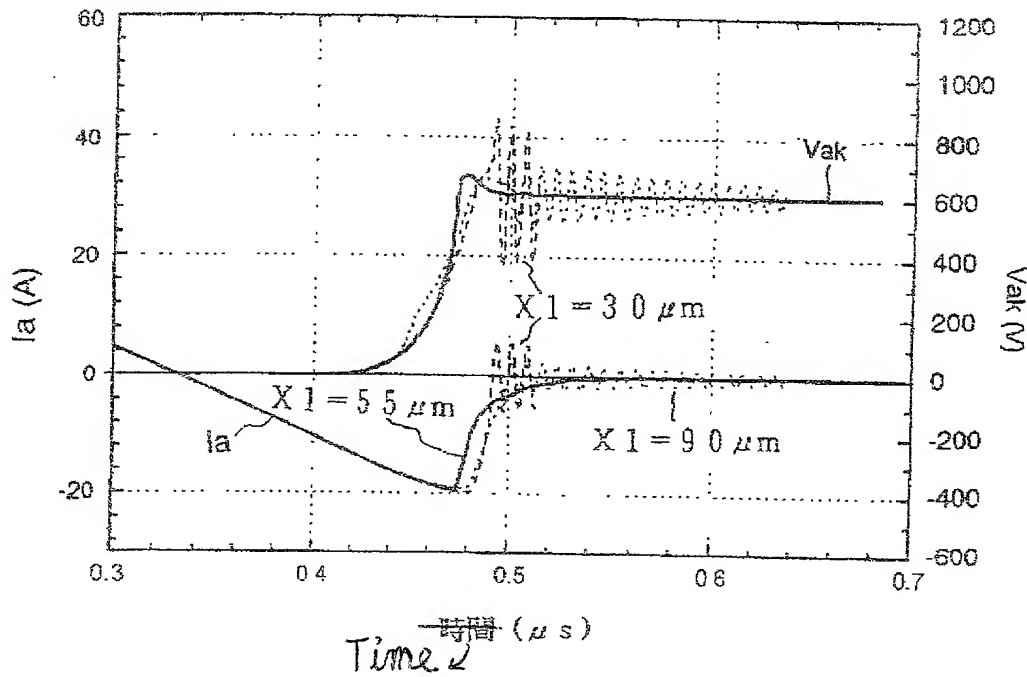


Fig. 6

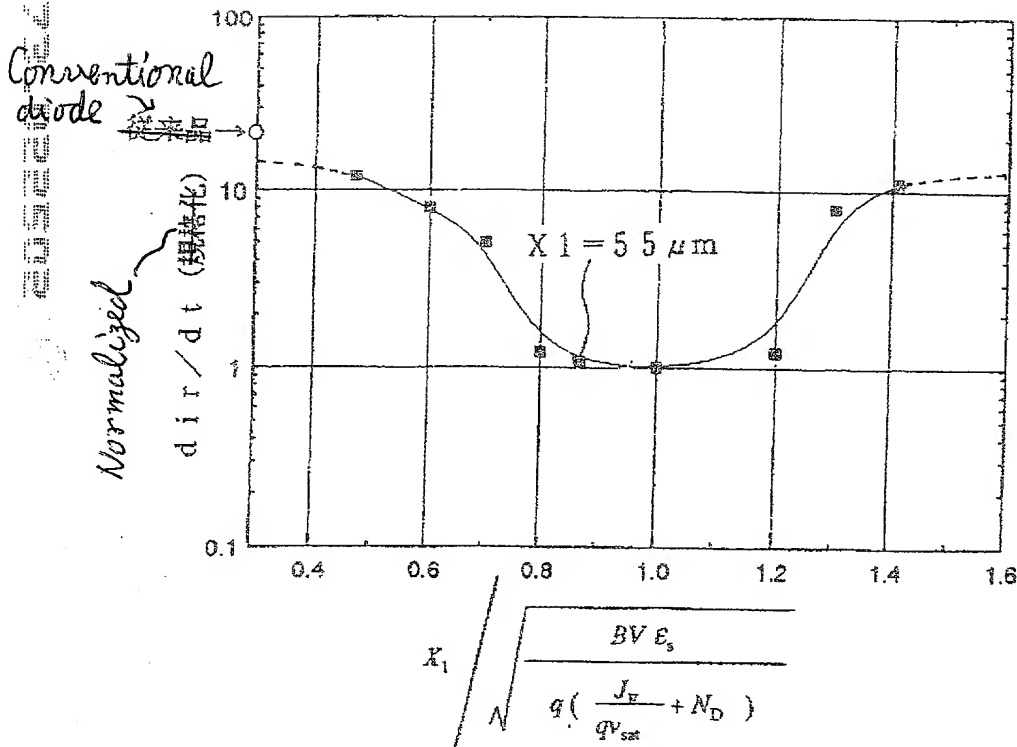
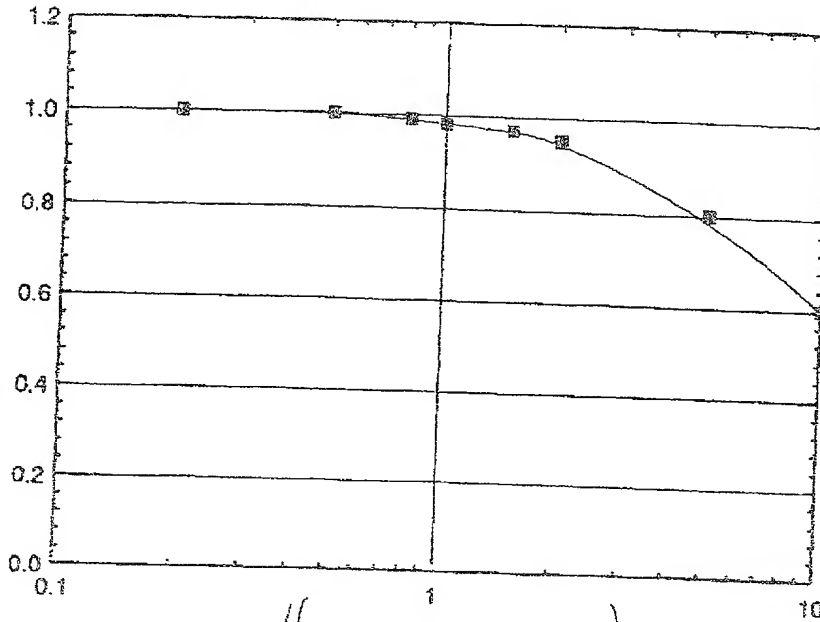


Fig. 7

Breakdown voltage — Normalized
素子耐圧BV (規格化)



$$Y1 = \sqrt{X_1^2 + \frac{2E_s(V_{\infty} + V_{FT})}{qN_{D1}}} - X_1$$

Fig. 8

Electric field strength
電界強度 (V/cm)

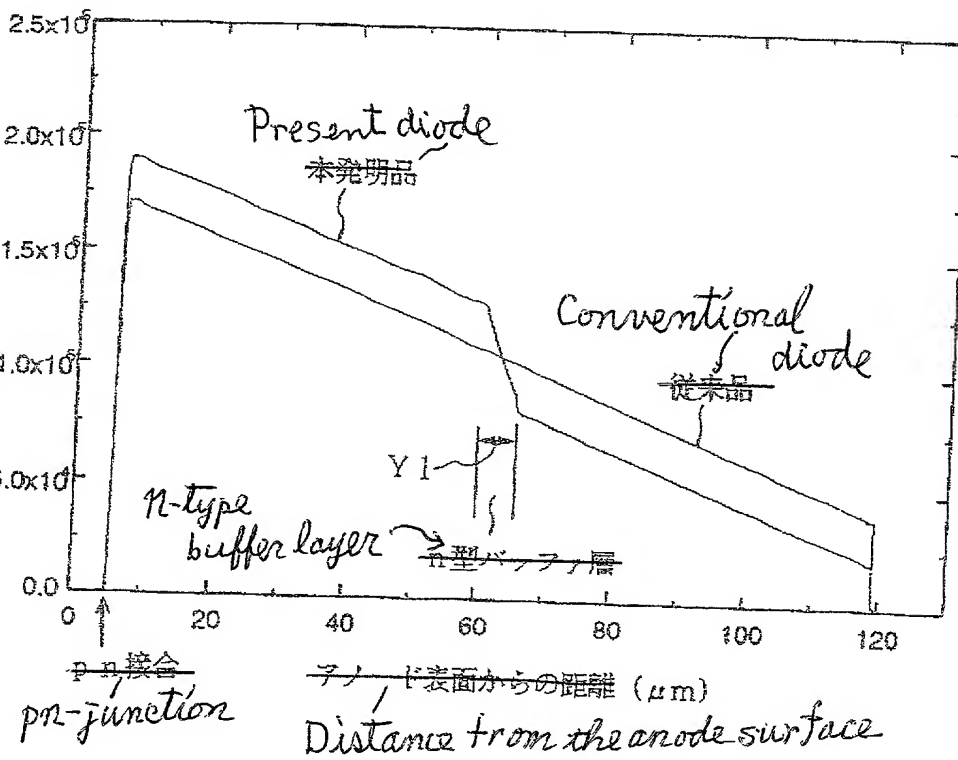


Fig. 9

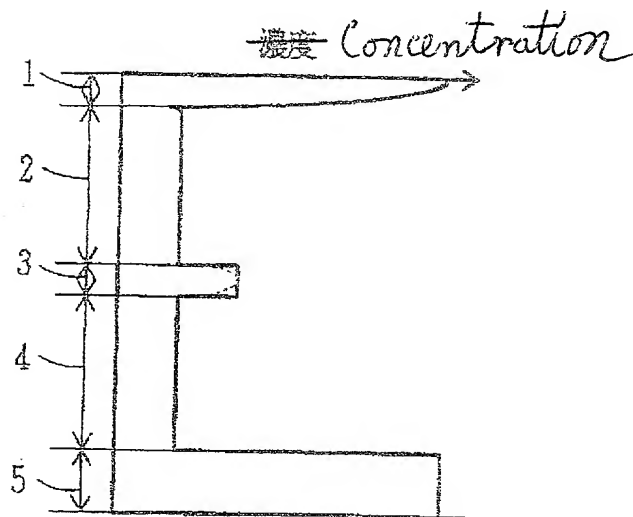


Fig. 10

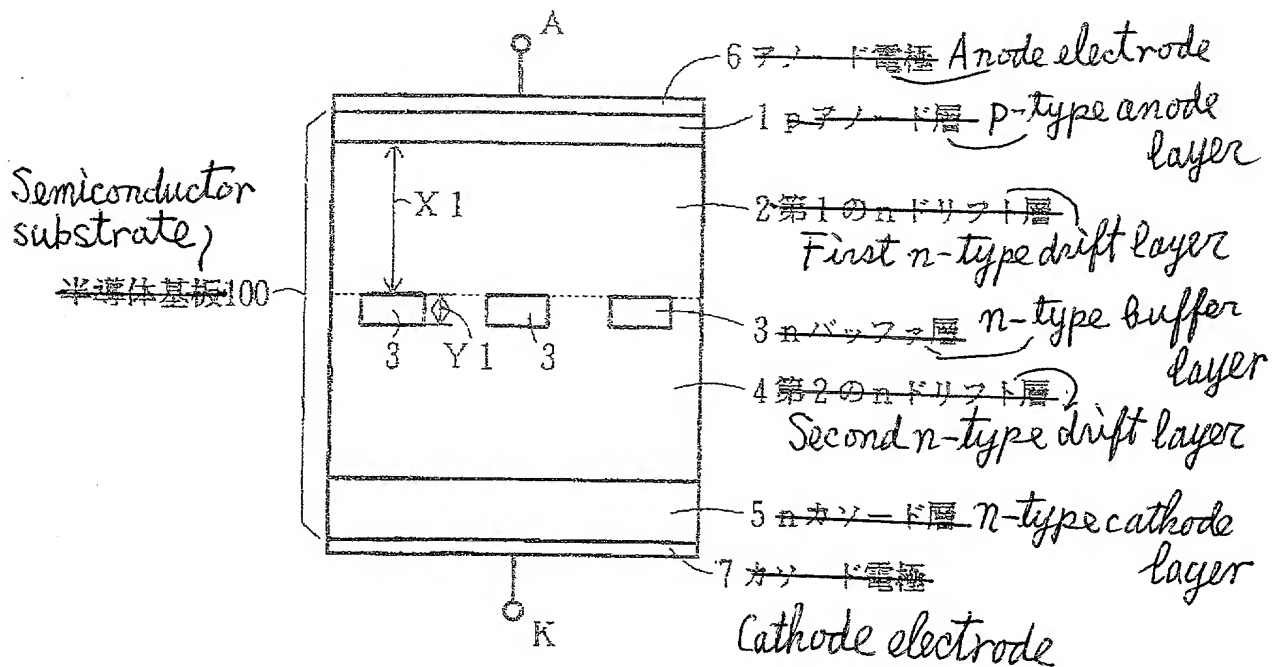
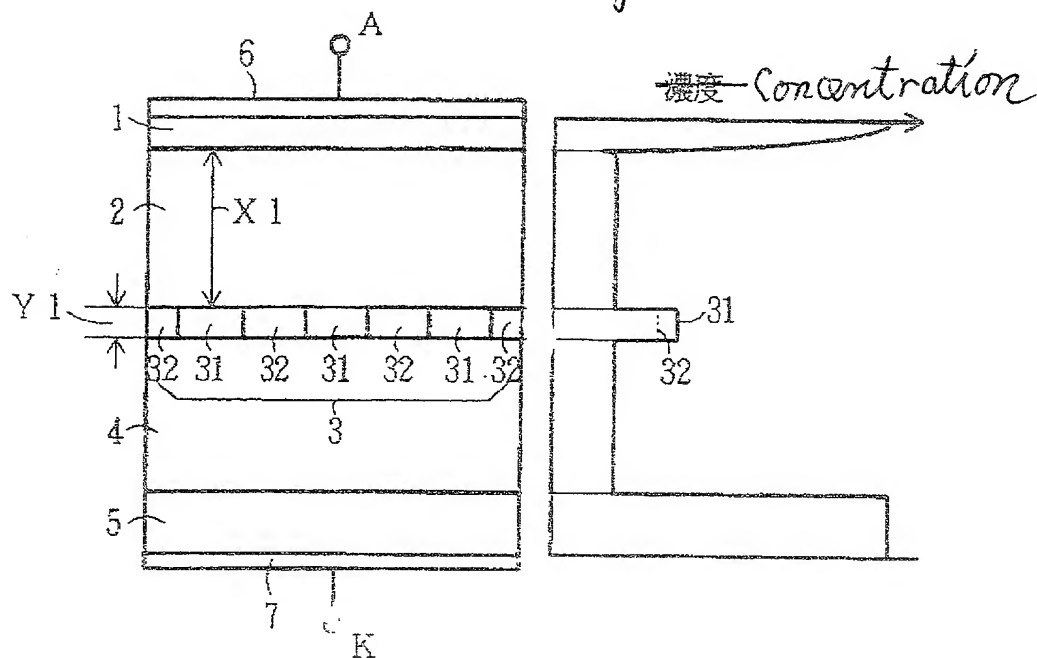


Fig. 11(a)

Fig. 11(b)



31 : : : 第一型バッファ層 (高濃度) First n-type buffer region (Heavily doped)
 32 : : : 第二型バッファ層 (低濃度) Second n-type buffer region (Lightly doped)

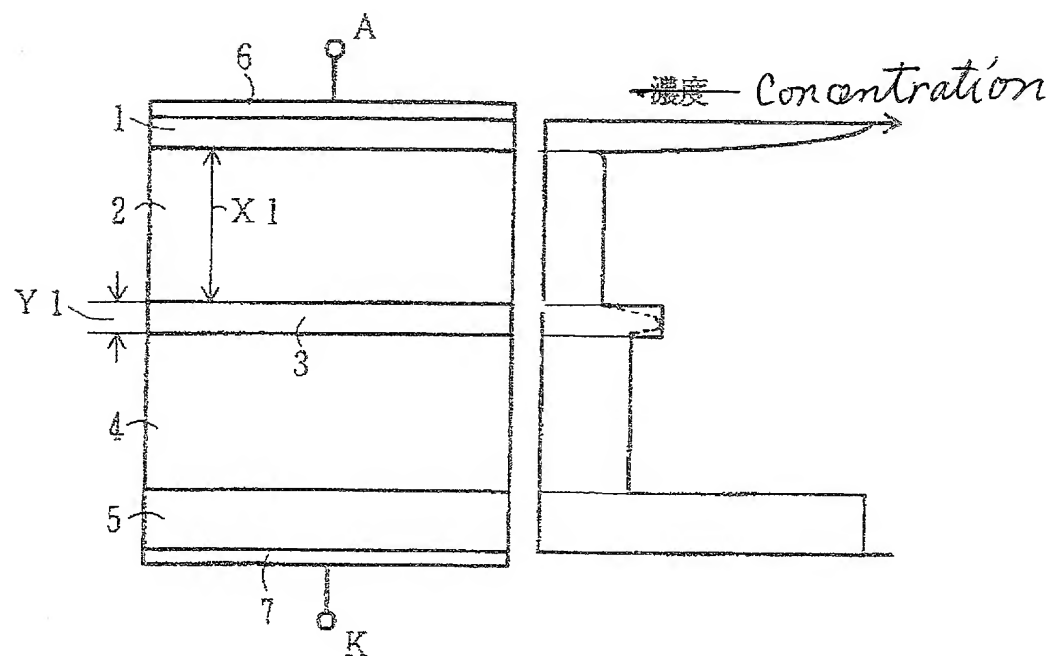


Fig. 12(a)

Fig. 12(b)

Fig. 13(a)

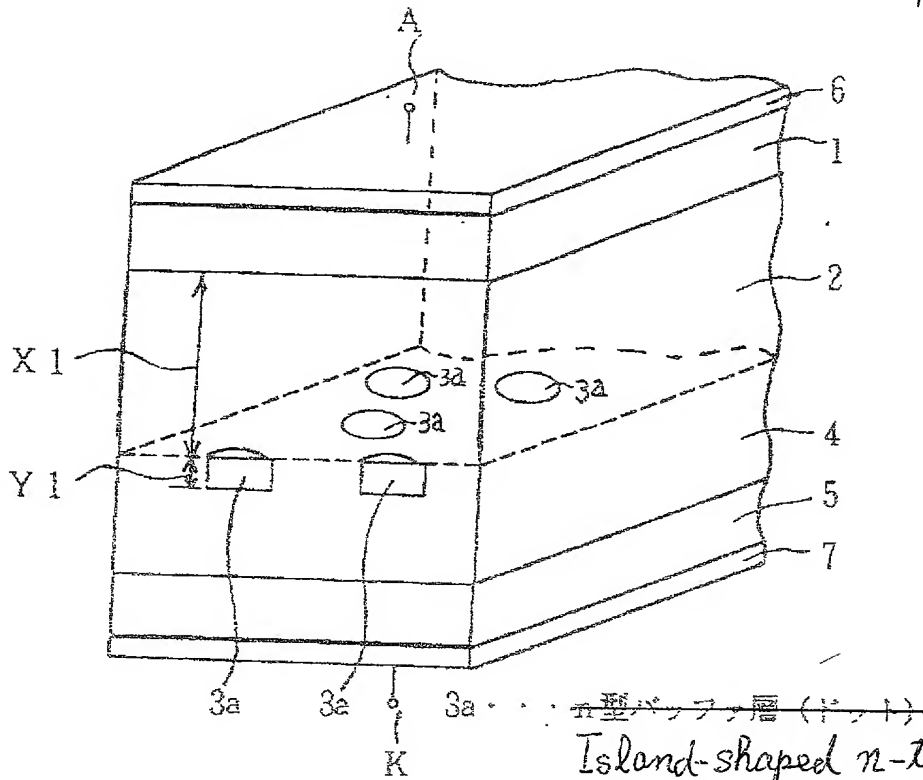


Fig. 13(b)

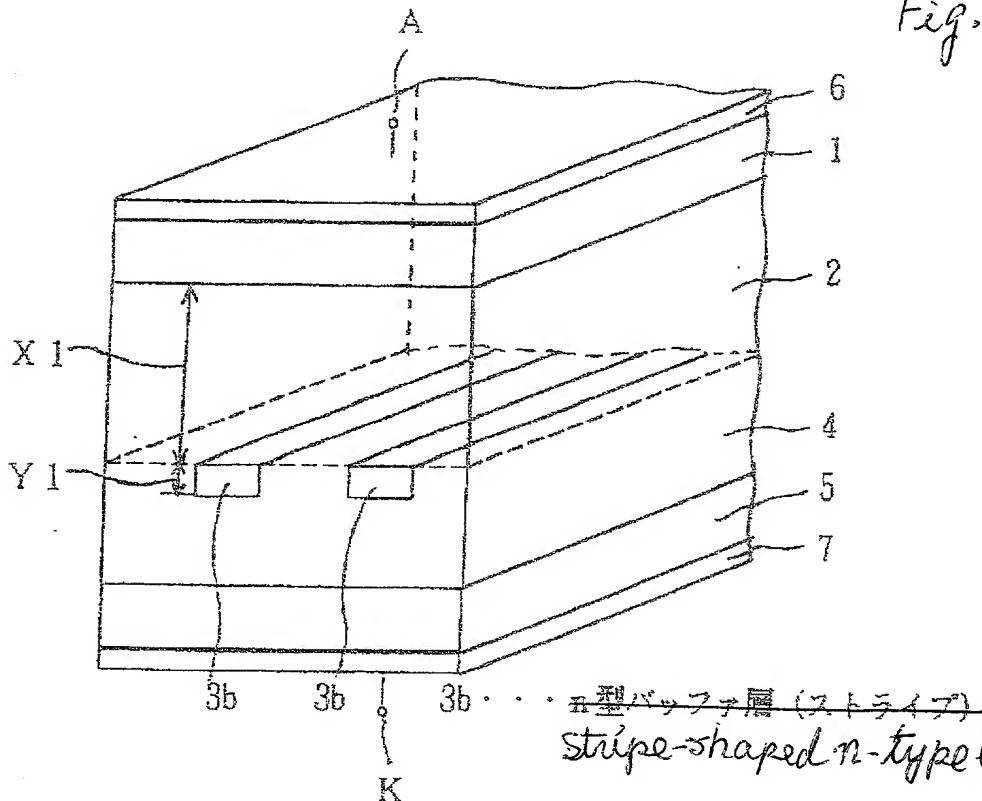
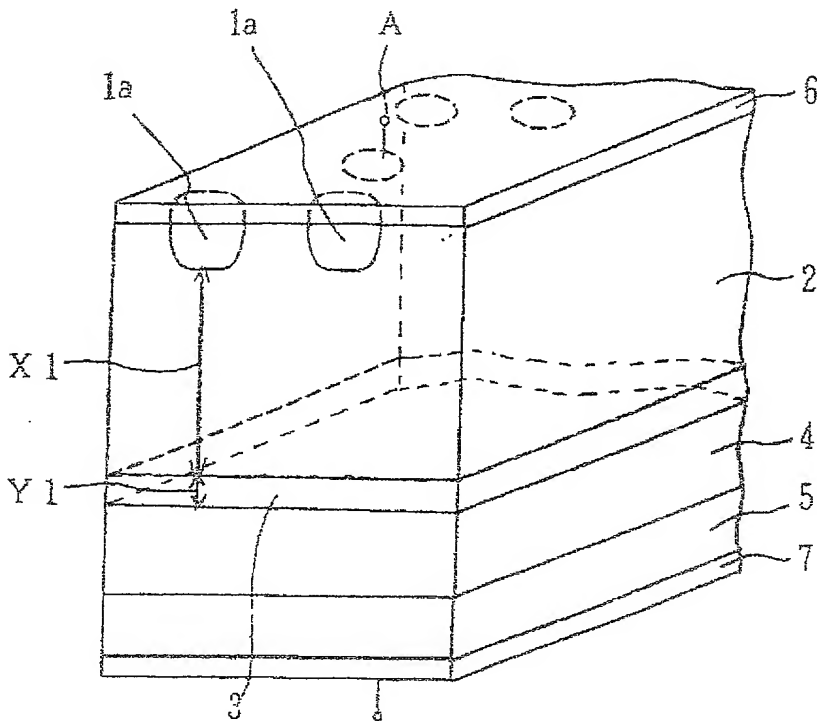
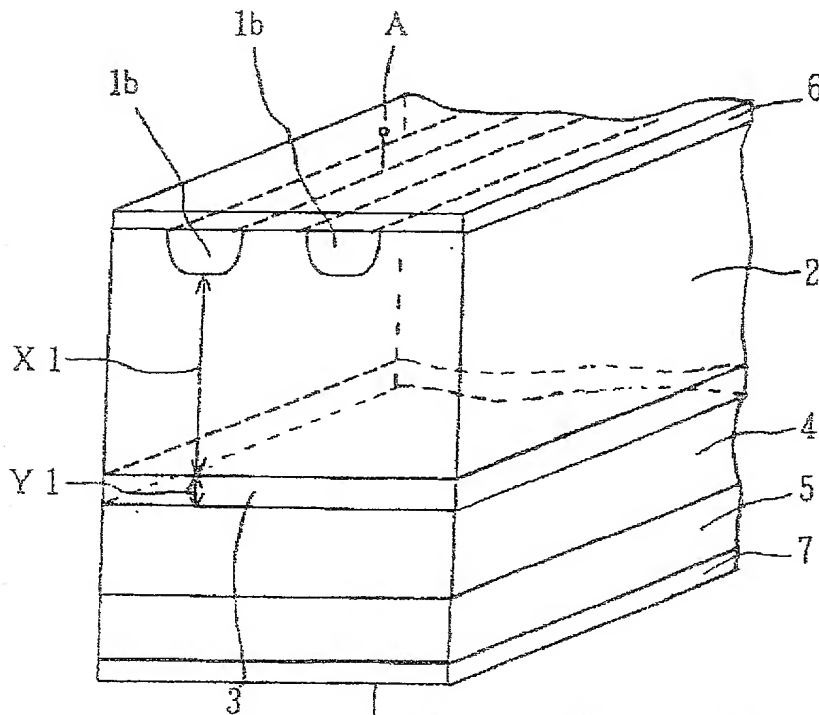


Fig. 14(a)



1a . . . p型アノード層 (ドット)
Island-shaped p-type anode region

Fig. 14(b)



1b . . . p型アノード層 (ストライプ)
Stripe-shaped p-type anode region

Fig. 15(a)

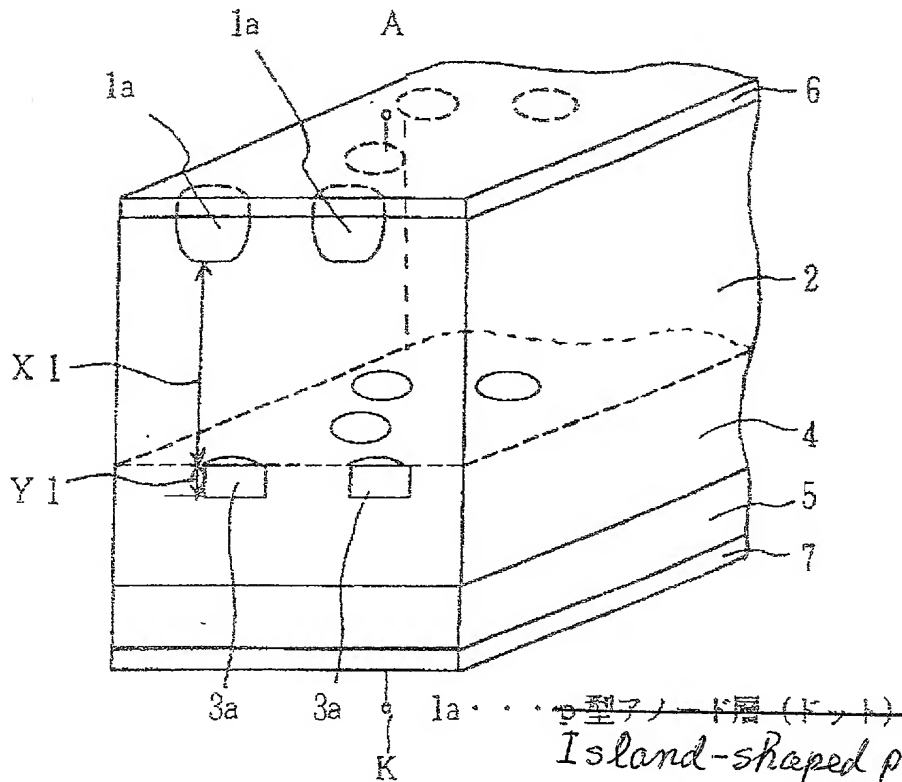
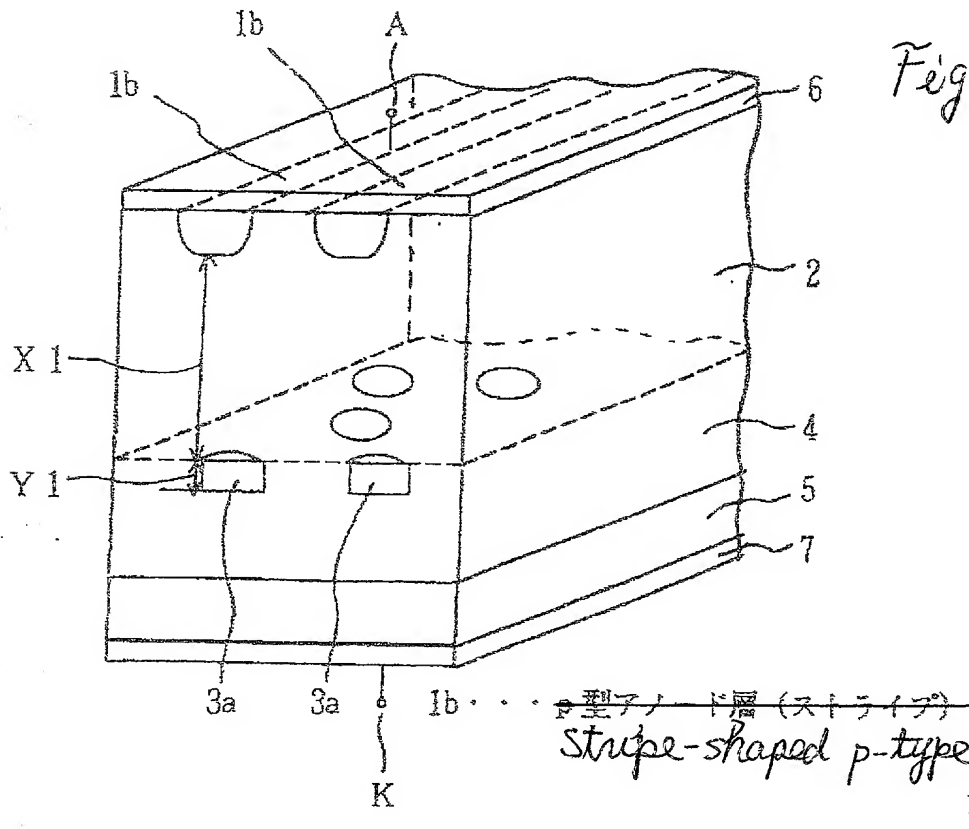


Fig. 15(b)



Thin p-type anode layer

A perspective view of a multi-layered rectangular block. The top surface features two semi-circular depressions, each labeled '1b'. A vertical dashed line labeled 'A' passes through the center of the top surface. The right side of the block is divided into several horizontal layers, labeled from top to bottom as '6', '1c', '2', '4', '5', and '7'. On the left side, a vertical double-headed arrow labeled 'X1' indicates a height or distance. Below it, a horizontal double-headed arrow labeled 'Y1' indicates a width or distance. A vertical dashed line labeled 'K' passes through the center of the block. The front face of the block is labeled '3'.

Fig. 20(b)

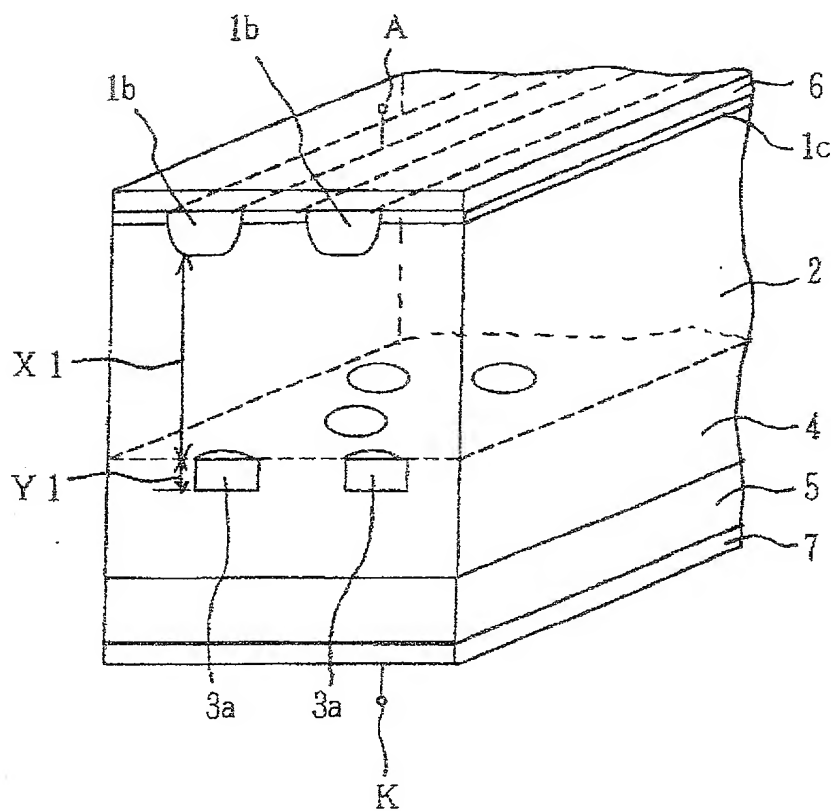


Fig. 21

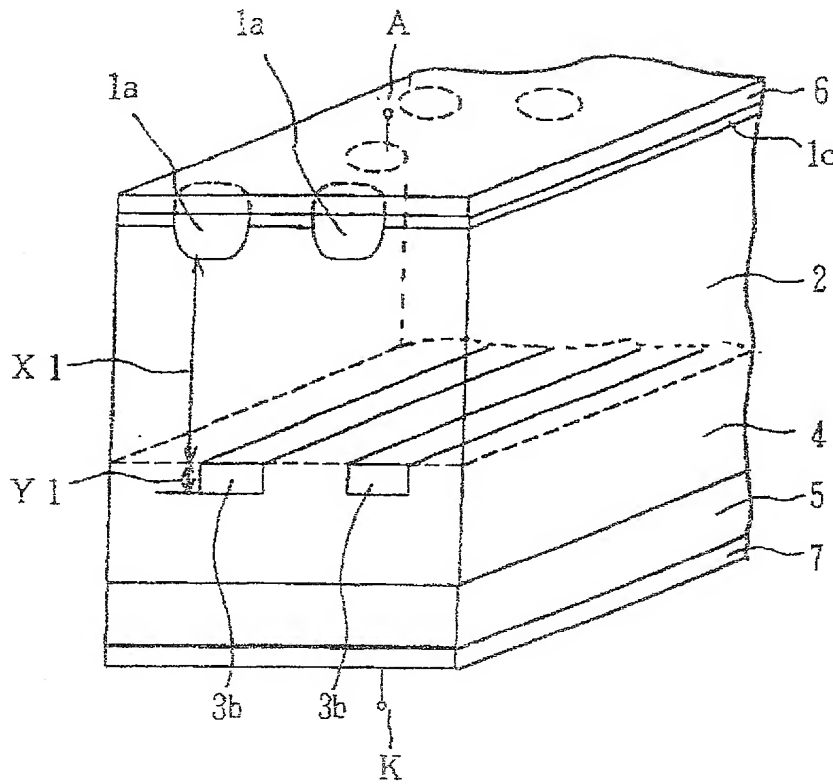


Fig. 22

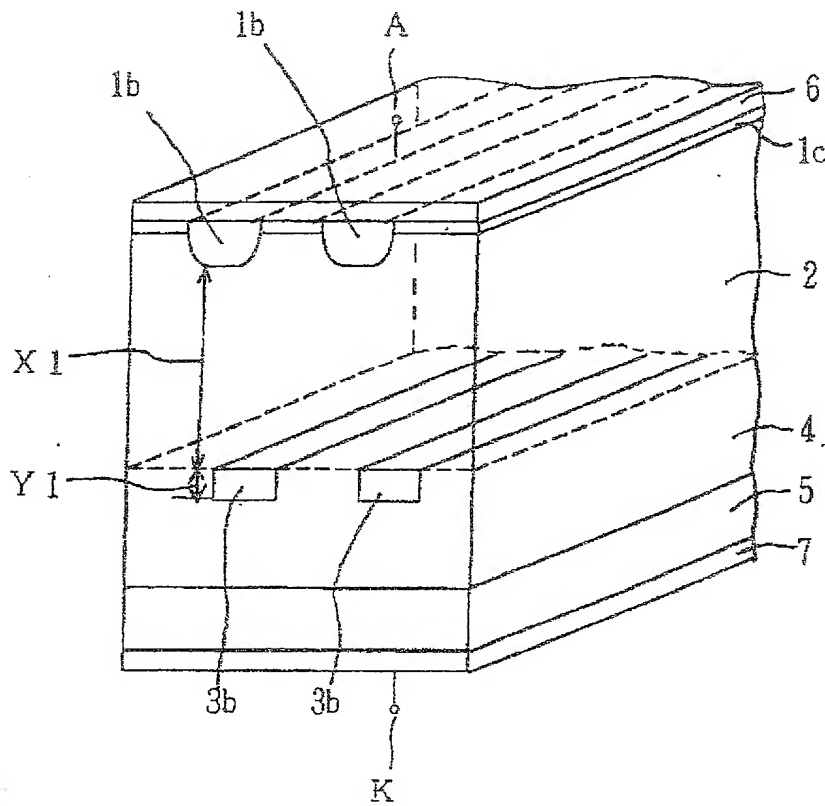


Fig. 23

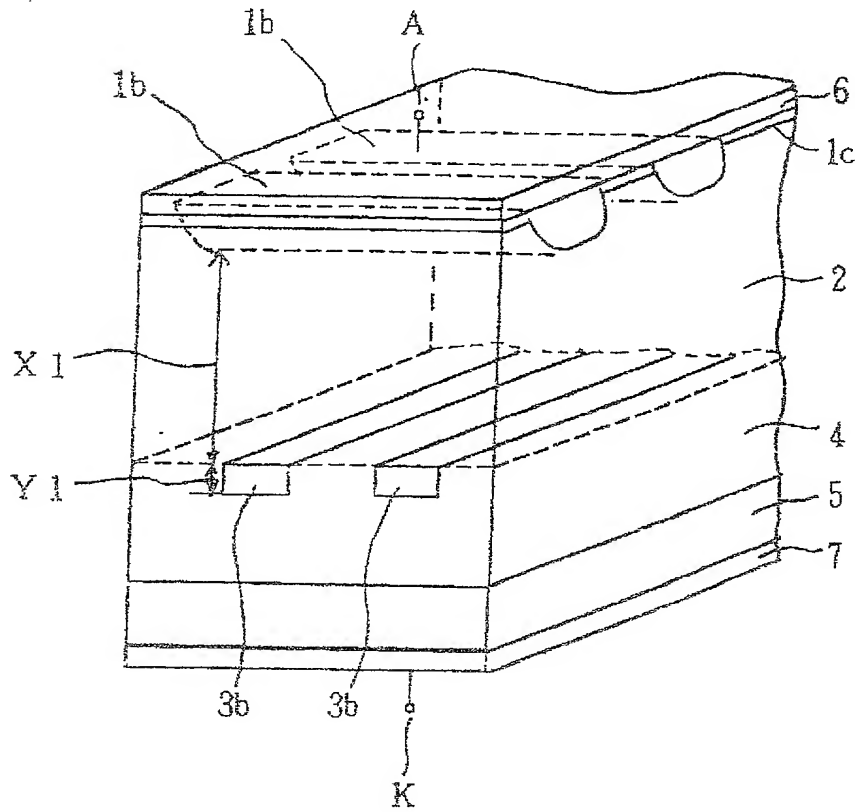


Fig. 24(a)

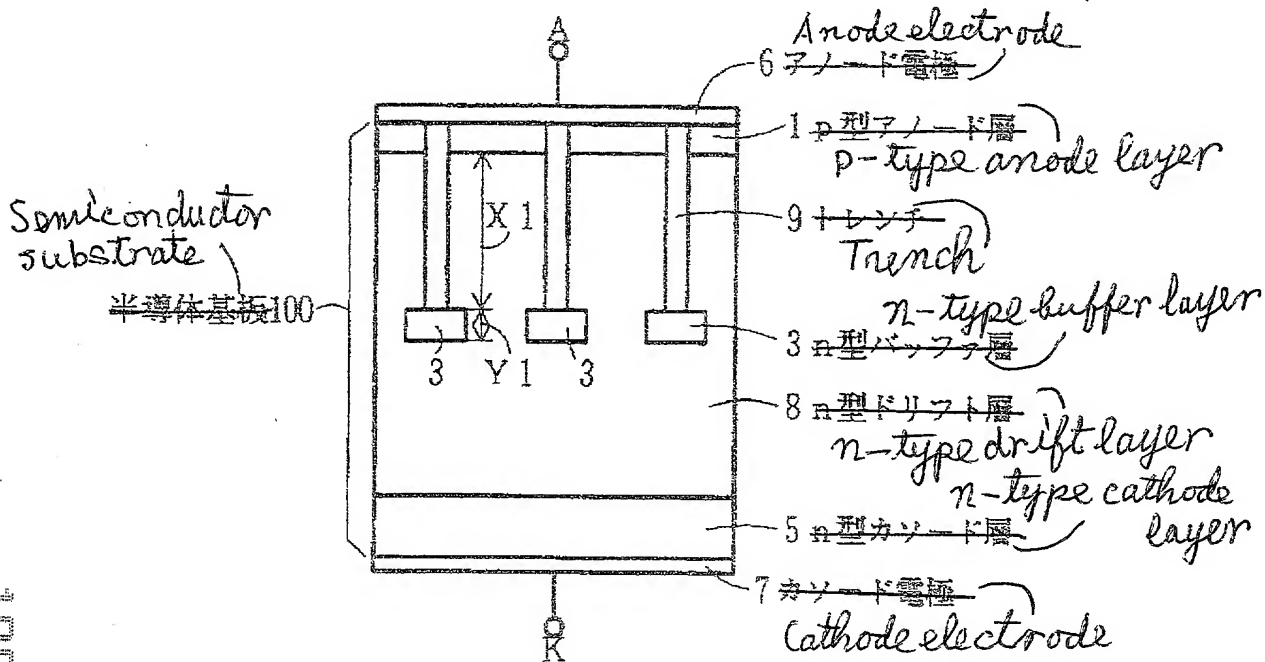


Fig. 24(b)

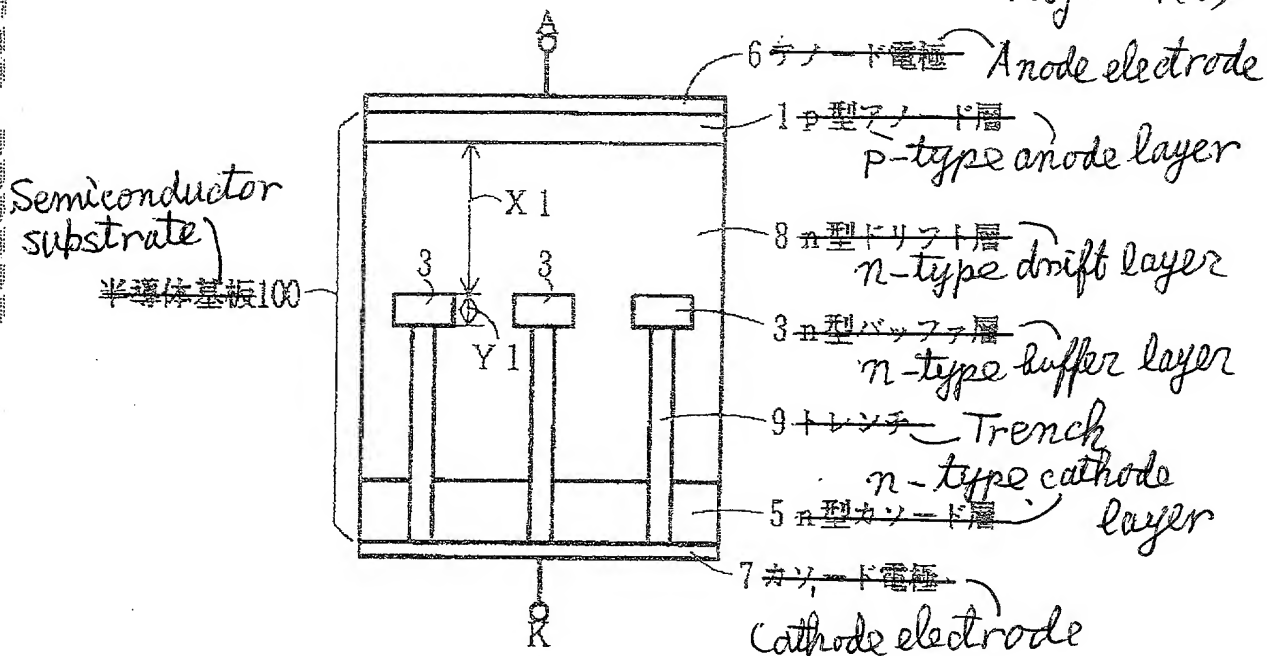


Fig. 25

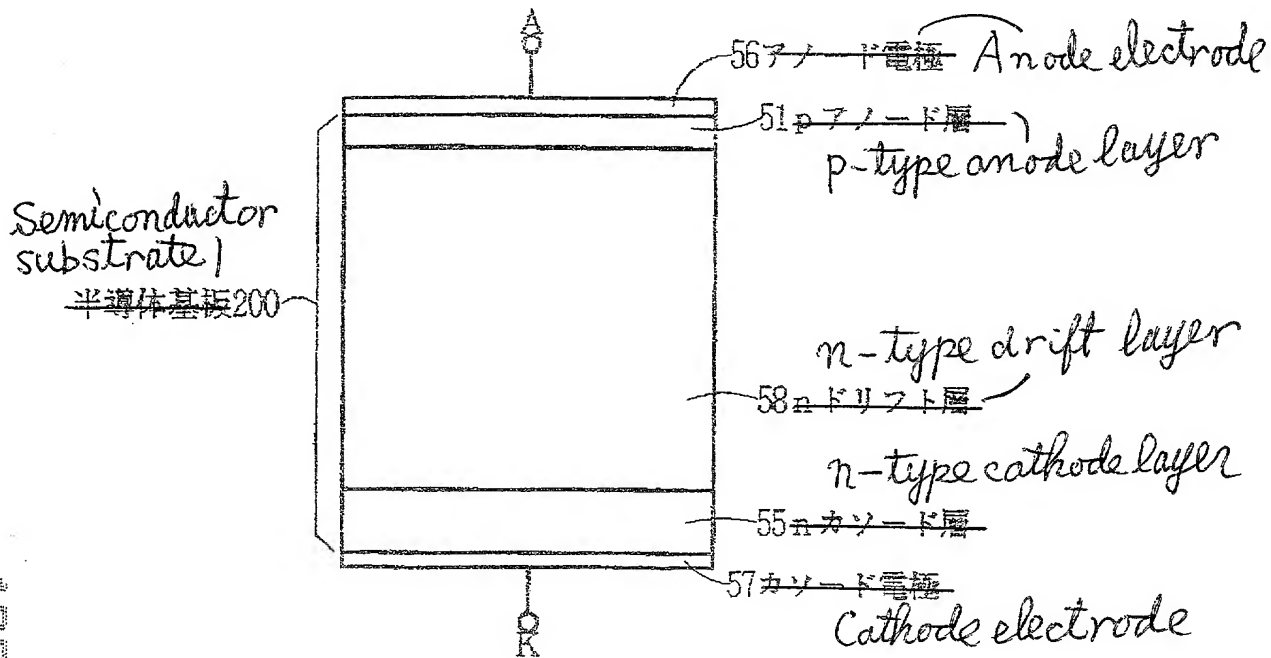


Fig. 26

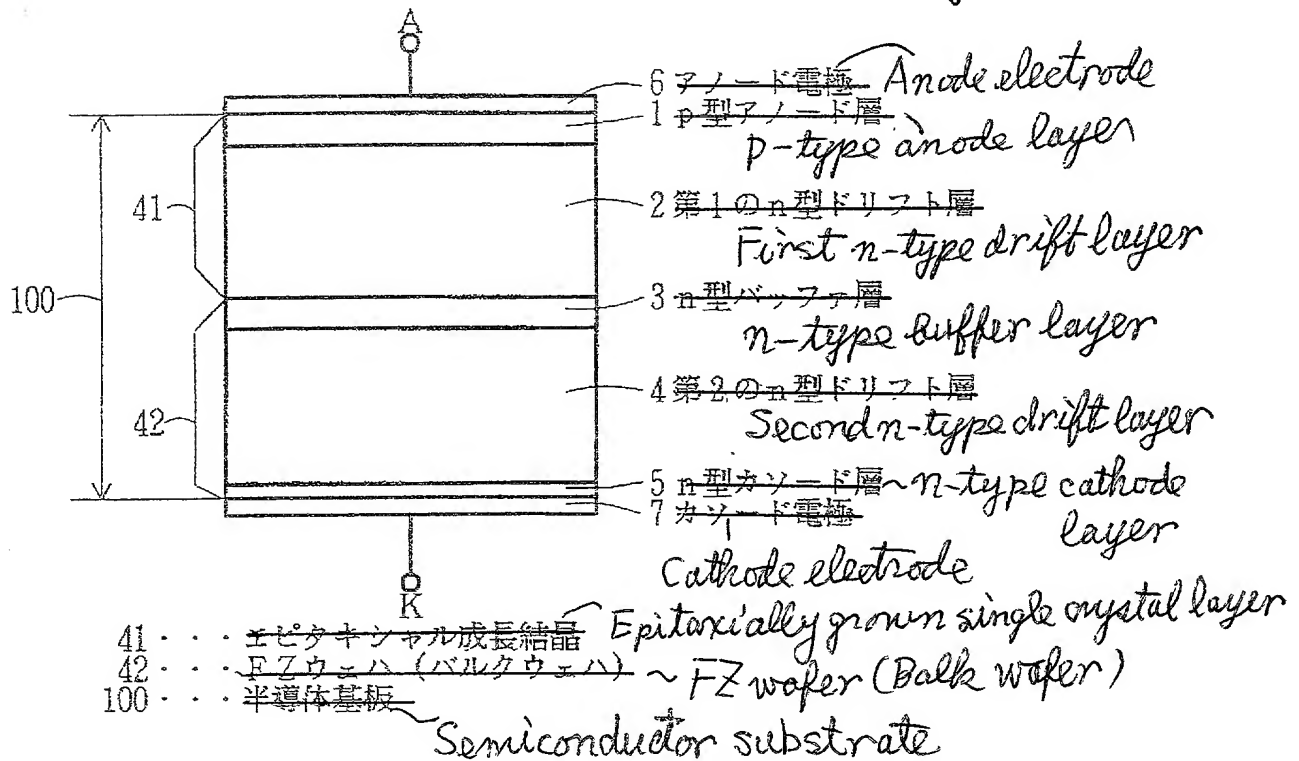


Fig. 27

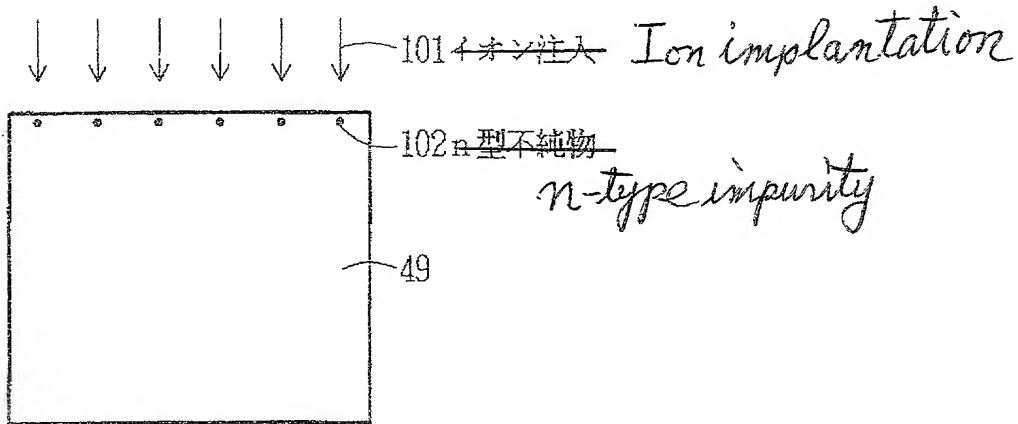


Fig. 28

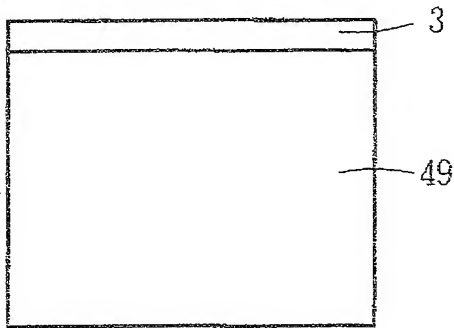


Fig. 29

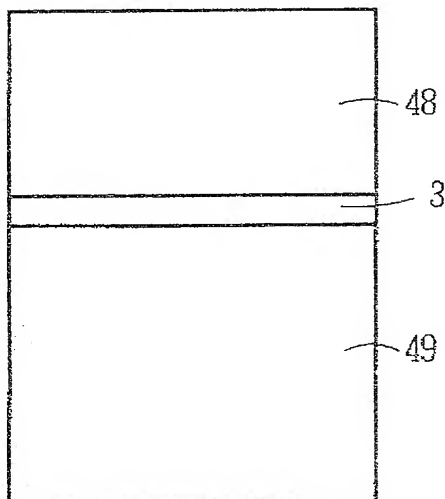


Fig. 30

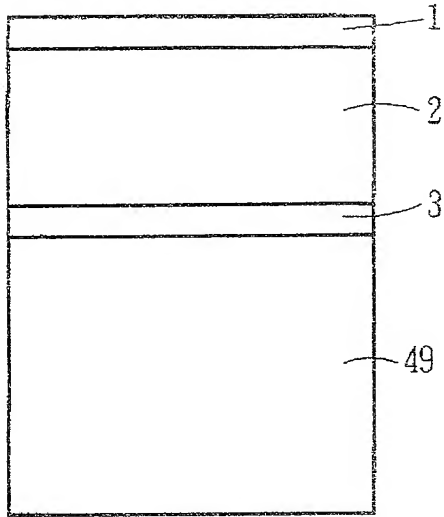


Fig. 31

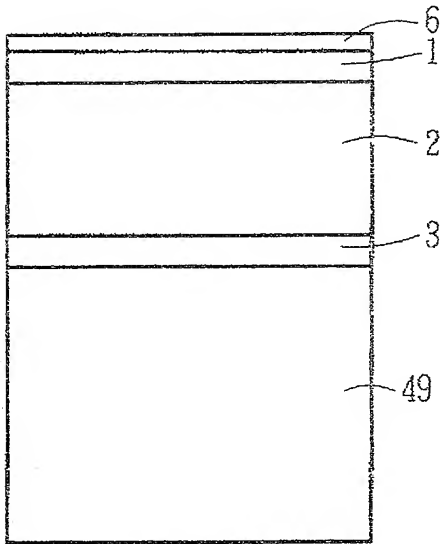


Fig. 32

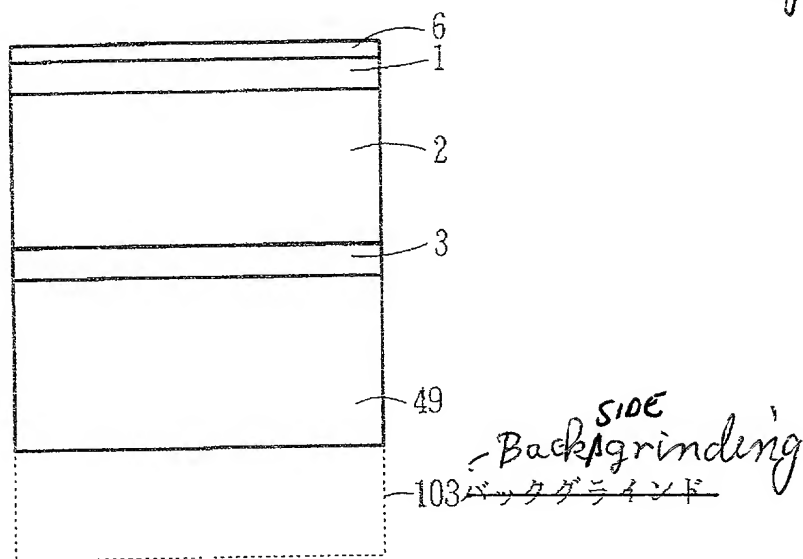


Fig. 33

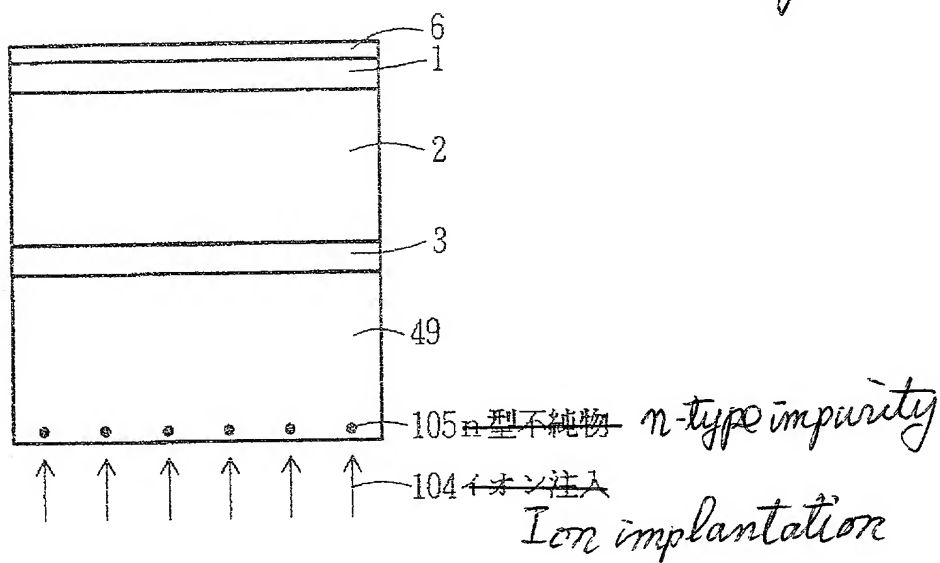


Fig. 34

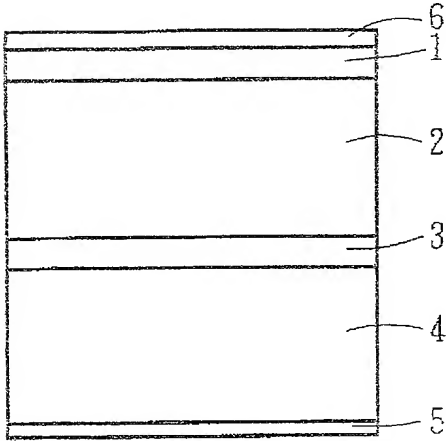


Fig. 35

